Fluidity Training Course

Tides in the Mediterranean

Friday 12th November 2010

Presented by Rhodri Nelson

The setup

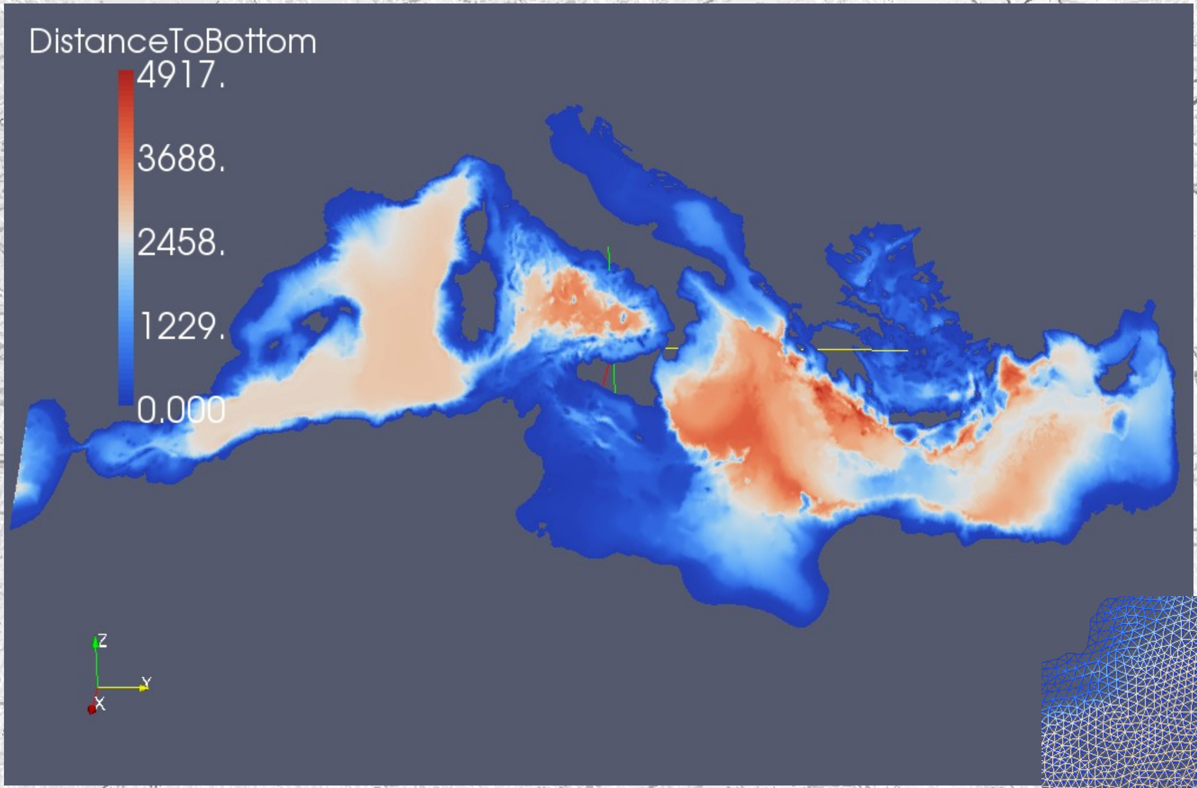
- Problem run on the surface of the sphere
  → Tensors require rotation, i.e. viscosity

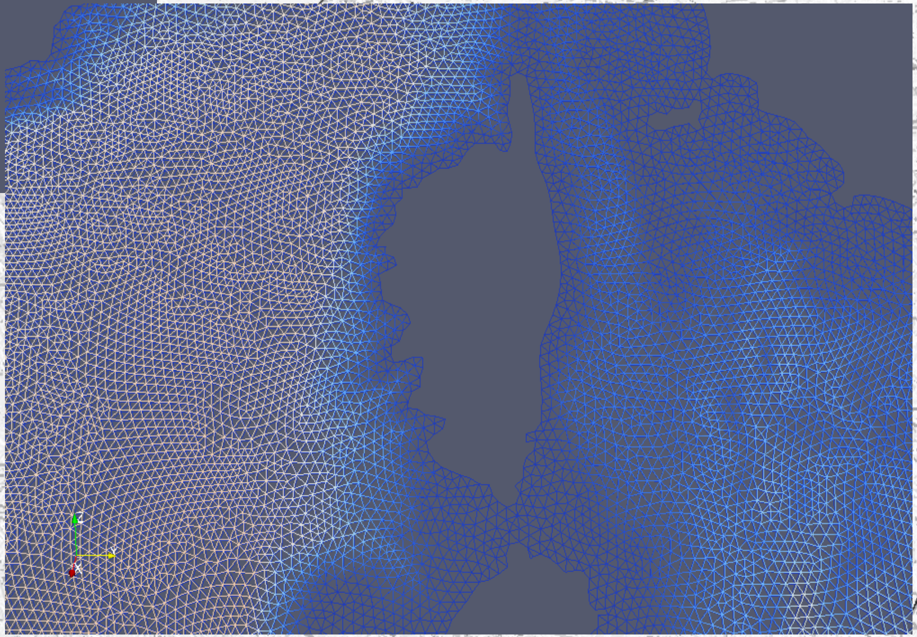
- The 3D mesh is created from extruding a 2D surface mesh such that the 3D mesh conforms to the bathymetry of the Mediterranean.

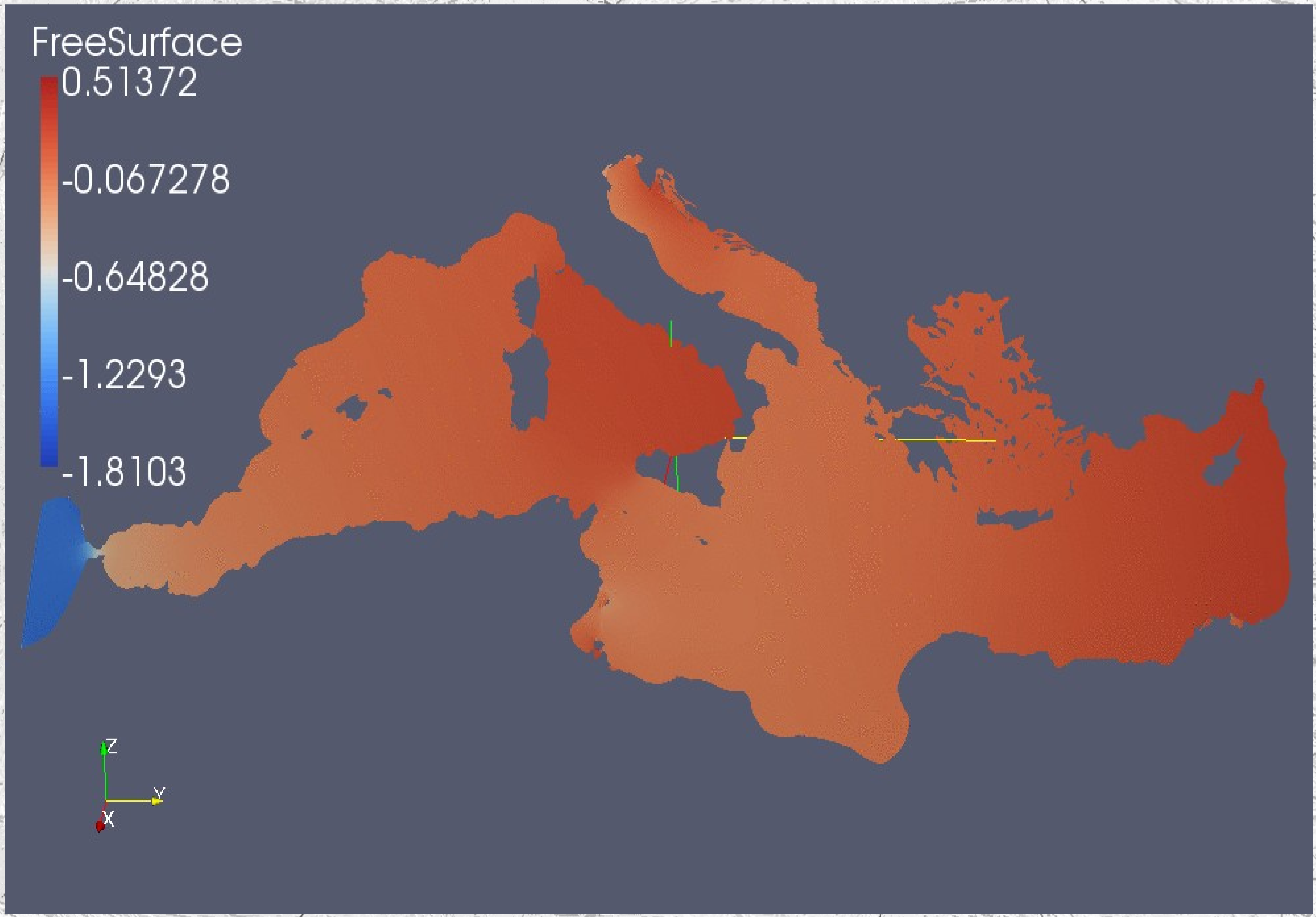
- Forcing at the open boundary is provided through setting a Dirichlet boundary condition for pressure

- Astronomical forcing for various components is provided

The Mesh






FreeSurface
0.51372
-0.067278
-0.64828
-1.2293
-1.8103
Z
Y
X